

### ABSTRACT OF THE DISCLOSURE

A method of introducing a substance into an avian egg such that potential contamination is substantially reduced includes removing an avian egg containing a live avian embryo from an incubator; applying a sanitizing fluid to the shell of the egg to kill pathogens attached thereto; forming an opening in the shell; inserting an injection device through the opening; releasing a substance into the egg via the needle; retracting the injection device from the egg; and applying a sanitizing fluid to the needle to kill pathogens attached thereto. Prior to injection, the sanitizing fluid is applied to substantially the entire surface of the egg shell.

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